

13 Apr 1995  
WPNSSB

OH0NF-C  
MEGOHMMETER

**1. GENERAL.** This procurement requires a self-contained megohmmeter capable of measuring and directly indicating resistance.

**2. CLASSIFICATION.** Type II, Class 5, Style E, and Color R in accordance with MIL-T-28800 for shipboard applications except relative humidity requirements are limited to  $75 \pm 5\%$ .

**3. OPERATIONAL REQUIREMENTS.** The equipment shall be capable of providing output voltages and resistance measurements within the minimum ranges, accuracies, and sensitivities specified below.

**3.1 Test voltages.** Range: 50 Vdc to 500 Vdc.

**3.1.1 Voltage accuracy.**  $\pm 3\%$  of indication.

**3.1.2 Short-circuit current.** 6 mA maximum.

**3.2 Resistance measurement.** Range: At 50V output - 50 kilohms to 10 gigohms. Above 50V output - 1 megohm to 100 gigohms.

**3.2.1 Resistance accuracy.**  $\pm 10\%$  of indication.

**3.3 Indicating meter.** Resistance scale length: 76.2 mm (3 in) minimum. Resistance scale resolution: see 3.2.1. An instrument that has a digital indicator with equal or better resistance resolution and accuracy is acceptable.

**3.4 Voltage warning indicator.** The equipment shall be provided with a front panel display to indicate the presence of voltage at the equipment terminals.

**3.5 Terminals.** The equipment input shall be equipped with guard, ground, and floating terminals to permit measurement of grounded or ungrounded two or three-terminal components.

**4. GENERAL REQUIREMENTS.**

**4.1 Power source.** MIL-T-28800 nominal power source requirements are invoked. Maximum power consumption: 30W.

**4.2 Weight.** 10 kg (22 lb) maximum.

**4.3 Lithium batteries.** Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

**4.4 Accessories.** Shielded test leads compatible with the equipment input terminals and terminated with insulated spring-loaded clips shall be provided.